

Water Management

Map symbol and soil name	Component percent	Limitations for--			Features affecting--			
		Pond reservoir areas	Embankments, dikes, and levees	Aquifer-fed excavated ponds	Drainage	Irrigation	Terraces and diversions	Grassed waterways
27A: Dickinson-----	100	Severe: seepage	Severe: seepage piping	Severe: no water	Limitation: deep to water	Limitation: soil blowing	Limitation: too sandy soil blowing	Favorable
27B: Dickinson-----	100	Severe: seepage	Severe: seepage piping	Severe: no water	Limitation: deep to water	Limitation: slope soil blowing	Limitation: too sandy soil blowing	Favorable
31E: Storden-----	100	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: erodes easily slope	Limitation: erodes easily slope
31F: Storden-----	100	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: erodes easily slope	Limitation: erodes easily slope
39A: Wadena-----	100	Severe: seepage	Severe: seepage piping	Severe: no water	Limitation: deep to water	Favorable	Limitation: too sandy	Favorable
39B: Wadena-----	100	Severe: seepage	Severe: seepage piping	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: too sandy	Favorable
41A: Estherville-----	100	Severe: seepage	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: soil blowing droughty	Limitation: too sandy soil blowing	Limitation: droughty
41B: Estherville-----	100	Severe: seepage	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: slope soil blowing droughty	Limitation: too sandy soil blowing	Limitation: droughty
42C: Salida-----	100	Severe: seepage	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: slope droughty	Limitation: too sandy	Limitation: droughty
42E: Salida-----	100	Severe: seepage slope	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: slope droughty	Limitation: slope	Limitation: slope droughty
86: Canisteo-----	100	Moderate: seepage	Severe: wetness	Moderate: slow refill	Limitation: frost action	Limitation: wetness	Limitation: wetness	Limitation: wetness

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94B: Terril-----	100	Moderate: seepage slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Favorable	Favorable
94C: Terril-----	100	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: slope	Limitation: slope
113: Webster-----	100	Moderate: seepage	Severe: wetness	Moderate: slow refill	Limitation: frost action	Limitation: wetness	Limitation: wetness	Limitation: wetness
114: Glencoe-----	100	Moderate: seepage	Severe: excess humus ponding	Severe: slow refill	Limitation: frost action ponding	Limitation: ponding	Limitation: ponding	Limitation: wetness
128A: Grogan-----	100	Severe: seepage	Severe: piping	Severe: no water	Limitation: deep to water	Favorable	Limitation: erodes easily	Limitation: erodes easily
128B: Grogan-----	100	Severe: seepage	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: erodes easily	Limitation: erodes easily
134: Okoboji-----	100	Moderate: seepage	Severe: ponding	Severe: slow refill	Limitation: frost action ponding	Limitation: ponding	Limitation: ponding	Limitation: wetness
149B: Everly-----	100	Moderate: seepage slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Favorable	Favorable
149B2: Everly-----	100	Moderate: seepage slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Favorable	Favorable
227: Lemond-----	100	Severe: seepage	Severe: seepage piping wetness	Severe: cutbanks cave	Limitation: frost action cutbanks cave	Limitation: wetness	Limitation: too sandy wetness	Limitation: wetness
241: Letri-----	100	Moderate: seepage	Severe: piping wetness	Severe: no water	Limitation: frost action	Limitation: wetness	Limitation: wetness	Limitation: wetness

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		Pond reservoir areas	Embankments, dikes, and levees	Aquifer-fed excavated ponds	Drainage	Irrigation	Terraces and diversions	Grassed waterways
247: Linder-----	100	Severe: seepage	Severe: seepage piping	Severe: cutbanks cave	Limitation: frost action cutbanks cave	Limitation: wetness	Limitation: too sandy wetness	Limitation: rooting depth
255: Mayer-----	100	Severe: seepage	Severe: seepage wetness	Severe: cutbanks cave	Limitation: frost action cutbanks cave	Limitation: wetness	Limitation: too sandy wetness	Limitation: wetness
269: Millington-----	100	Moderate: seepage	Severe: piping ponding	Moderate: slow refill	Limitation: flooding frost action ponding	Limitation: flooding ponding	Limitation: ponding	Limitation: wetness
282: Hanska-----	100	Severe: seepage	Severe: seepage wetness	Severe: cutbanks cave	Limitation: frost action cutbanks cave	Limitation: wetness soil blowing	Limitation: too sandy wetness soil blowing	Limitation: wetness
313: Spillville-----	100	Severe: seepage	Moderate: piping thin layer wetness	Moderate: slow refill deep to water	Limitation: deep to water	Limitation: flooding	Favorable	Favorable
317: Oshawa-----	100	Slight	Severe: ponding	Severe: slow refill	Limitation: flooding frost action ponding	Limitation: flooding ponding	Limitation: ponding	Limitation: wetness
321: Tilfer-----	100	Moderate: seepage depth to rock	Severe: thin layer wetness	Severe: slow refill depth to rock	Limitation: flooding percs slowly depth to rock	Limitation: percs slowly wetness depth to rock	Limitation: wetness depth to rock	Limitation: percs slowly wetness depth to rock
327A: Dickman-----	100	Severe: seepage	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: soil blowing droughty	Limitation: too sandy soil blowing	Limitation: droughty
327B: Dickman-----	100	Severe: seepage	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: slope soil blowing droughty	Limitation: too sandy soil blowing	Limitation: droughty
345: Wilmonton-----	100	Slight	Moderate: piping wetness	Severe: slow refill	Limitation: frost action	Limitation: wetness	Limitation: erodes easily wetness	Limitation: erodes easily

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		Pond reservoir areas	Embankments, dikes, and levees	Aquifer-fed excavated ponds	Drainage	Irrigation	Terraces and diversions	Grassed waterways
390: Spillville-----	100	Severe: seepage	Moderate: piping thin layer wetness	Moderate: slow refill deep to water	Limitation: deep to water	Limitation: flooding	Favorable	Favorable
392: Biscay-----	100	Severe: seepage	Severe: seepage piping wetness	Severe: cutbanks cave	Limitation: frost action cutbanks cave	Limitation: wetness	Limitation: too sandy wetness	Limitation: wetness
399: Biscay-----	100	Severe: seepage	Severe: seepage piping ponding	Severe: cutbanks cave	Limitation: frost action ponding	Limitation: ponding	Limitation: too sandy ponding	Limitation: wetness
421B: Ves-----	100	Moderate: seepage	Moderate: piping	Severe: no water	Limitation: deep to water	Favorable	Limitation: erodes easily	Limitation: erodes easily
421B2: Ves-----	100	Moderate: seepage slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: erodes easily	Limitation: erodes easily
423: Seaforth-----	100	Moderate: seepage	Moderate: piping wetness	Moderate: slow refill deep to water	Limitation: deep to water	Favorable	Favorable	Favorable
446: Normania-----	100	Moderate: seepage	Moderate: piping wetness	Moderate: slow refill deep to water	Limitation: frost action	Limitation: wetness	Limitation: wetness	Favorable
562: Knoke-----	100	Slight	Severe: hard to pack ponding	Severe: slow refill	Limitation: frost action ponding	Limitation: ponding	Limitation: erodes easily ponding	Limitation: erodes easily wetness
574: Du Page-----	100	Severe: seepage	Moderate: piping thin layer	Moderate: slow refill deep to water	Limitation: deep to water	Limitation: flooding	Favorable	Favorable
575: Nishna-----	100	Slight	Severe: wetness	Severe: slow refill	Limitation: flooding percs slowly	Limitation: percs slowly wetness	Limitation: erodes easily percs slowly wetness	Limitation: erodes easily percs slowly wetness

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		Pond reservoir areas	Embankments, dikes, and levees	Aquifer-fed excavated ponds	Drainage	Irrigation	Terraces and diversions	Grassed waterways
654: Revere-----	100	Moderate: seepage	Severe: wetness	Moderate: slow refill	Limitation: frost action	Limitation: wetness	Limitation: wetness	Limitation: wetness
818: Lemond-----	50	Severe: seepage	Severe: seepage piping wetness	Severe: cutbanks cave	Limitation: frost action cutbanks cave	Limitation: wetness	Limitation: too sandy wetness	Limitation: wetness
882: Millington-----	55	Moderate: seepage	Severe: piping ponding	Moderate: slow refill	Limitation: flooding frost action ponding	Limitation: flooding ponding	Limitation: ponding	Limitation: wetness
883: Du Page-----	60	Severe: seepage	Moderate: piping thin layer	Moderate: slow refill deep to water	Limitation: deep to water	Limitation: flooding	Favorable	Favorable
884: Delft-----	55	Moderate: seepage	Severe: thin layer wetness	Severe: slow refill	Limitation: frost action	Limitation: wetness	Limitation: wetness	Limitation: wetness
Webster-----	45	Moderate: seepage	Severe: wetness	Moderate: slow refill	Limitation: frost action	Limitation: wetness	Limitation: wetness	Limitation: wetness
894B2: Everly-----	45	Moderate: seepage slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Favorable	Favorable
Storden-----	35	Moderate: seepage slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: erodes easily	Limitation: erodes easily
894C2: Storden-----	45	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: erodes easily slope	Limitation: erodes easily slope
Everly-----	35	Severe: slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: slope	Limitation: slope
894D2: Storden-----	50	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: erodes easily slope	Limitation: erodes easily slope
Everly-----	30	Severe: slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: slope	Limitation: slope

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		Pond reservoir areas	Embankments, dikes, and levees	Aquifer-fed excavated ponds	Drainage	Irrigation	Terraces and diversions	Grassed waterways
954B2: Ves-----	50	Moderate: seepage slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: erodes easily	Limitation: erodes easily
Storden-----	35	Moderate: seepage slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: erodes easily	Limitation: erodes easily
954C2: Storden-----	50	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: erodes easily slope	Limitation: erodes easily slope
954D2: Storden-----	60	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: erodes easily slope	Limitation: erodes easily slope
992E: Rock Outcrop-----	50	---	---	---	---	---	---	---
Copaston-----	35	Severe: slope depth to rock	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: slope soil blowing depth to rock	Limitation: slope soil blowing depth to rock	Limitation: slope depth to rock
999B2: Estherville-----	30	Severe: seepage	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: slope soil blowing droughty	Limitation: too sandy soil blowing	Limitation: droughty
Ves-----	30	Moderate: seepage slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: erodes easily	Limitation: erodes easily
999C2: Estherville-----	30	Severe: seepage slope	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: slope droughty	Limitation: slope too sandy	Limitation: slope droughty
Storden-----	30	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: erodes easily slope	Limitation: erodes easily slope
999D2: Estherville-----	30	Severe: seepage slope	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: slope soil blowing droughty	Limitation: slope too sandy soil blowing	Limitation: slope droughty
Storden-----	30	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: erodes easily slope	Limitation: erodes easily slope

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1016: Udorthents-----	100	---	---	---	---	---	---	---
1029: Pits-----	100	---	---	---	---	---	---	---
1053: Aquolls-----	100	---	---	---	---	---	---	---
1833: Coland-----	100	Severe: seepage	Severe: wetness	Moderate: slow refill	Limitation: flooding frost action	Limitation: flooding wetness	Limitation: wetness	Limitation: wetness
1834: Coland-----	100	Severe: seepage	Severe: wetness	Moderate: slow refill	Limitation: flooding frost action	Limitation: flooding wetness	Limitation: wetness	Limitation: wetness
1850: Oshawa Variant-----	100	Slight	Severe: wetness	Severe: slow refill	Limitation: frost action	Limitation: wetness	Limitation: wetness	Limitation: wetness
1851B: Blue Earth-----	100	Slight	Severe: excess humus piping wetness	Severe: slow refill	Limitation: frost action	Limitation: wetness	Limitation: wetness	Limitation: wetness
1852F: Terril-----	50	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: slope	Limitation: slope
Swanlake-----	30	Severe: slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: erodes easily slope	Limitation: erodes easily slope
1853A: Wadena Variant-----	100	Severe: seepage	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: depth to rock	Limitation: depth to rock	Limitation: depth to rock
1853B: Wadena Variant-----	100	Severe: seepage	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: slope depth to rock	Limitation: depth to rock	Limitation: depth to rock
1897: Seaforth-----	50	Moderate: seepage	Moderate: piping wetness	Moderate: slow refill deep to water	Limitation: deep to water	Favorable	Favorable	Favorable
Wilmonton-----	30	Slight	Moderate: piping wetness	Severe: slow refill	Limitation: frost action	Limitation: wetness	Limitation: erodes easily wetness	Limitation: erodes easily

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		Pond reservoir areas	Embankments, dikes, and levees	Aquifer-fed excavated ponds	Drainage	Irrigation	Terraces and diversions	Grassed waterways
1899B: Wilmington Variant-----	100	Moderate: slope	Severe: hard to pack	Severe: no water	Limitation: frost action percs slowly slope	Limitation: percs slowly slope wetness	Limitation: percs slowly wetness	Limitation: percs slowly
1899E: Wilmington Variant-----	100	Severe: slope	Severe: hard to pack	Severe: no water	Limitation: frost action percs slowly slope	Limitation: percs slowly slope wetness	Limitation: percs slowly slope wetness	Limitation: percs slowly slope

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation.
See text for definitions of terms used in this table. Absence of an entry indicates that no rating is applicable.)